

# MS Word Exhibit 300 for DME/Mixed (BY2008) (Form) / NASA Integrated Enterprise Management - Contract Management Module (CMM) (Item)

Form Report, printed by: System Administrator, Jan 31, 2007

## OVERVIEW

### General Information

<b>1. Date of Submission:</b>	January 31, 2007
<b>2. Agency:</b>	026
<b>3. Bureau:</b>	00
<b>4. Name of this Capital Asset:</b>	NASA Integrated Enterprise Management - Contract Management Module (CMM)
<b>Investment Portfolio:</b>	BY OMB 300 Items
<b>5. Unique ID:</b>	026-00-01-01-01-1102-00
<b>(For IT investments only, see section 53. For all other, use agency ID system.)</b>	

### All investments

6. What kind of investment will this be in FY2008?

(Please NOTE: Investments moving to O&M ONLY in FY2008, with Planning/Acquisition activities prior to FY2008 should not select O&M. These investments should indicate their current status.)

Acquisition

7. What was the first budget year this investment was submitted to OMB?

FY2006

8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap.

The Integrated Enterprise Management Program (IEMP) is an Agency-wide re-engineering of NASA's business process infrastructure using "best practices". The Contract Management Module supports NASA's Cross-Cutting Management Strategies, specifically: Strategic Management of Information and Information Technologies and Strategic Financial Management. These strategies are part of NASA's efforts to comply with statutory requirements in the Clinger-Cohen Act and the Government Performance and Results Act of 1993. The Management Strategies also support President Management Agenda (PMA) Government-wide items such as Financial Performance and Expanded eGovernment. 90% of NASA's budget is obligated via contracts. The Contract Management Module (CMM) will web-enable processes, tools, and management systems NASA utilizes for contract development, award, and management. GAO audits have cited NASA's contracting system as a "high risk" performance gap. Also, NASA's legacy procurement systems support and automate only a fraction of the procurement staff's required tasks. This fragmented environment consists of 26 information systems that support contract management across the Centers, with 5 systems that support the overall enterprise procurement environment and each Center has its own procedures for managing procurements. CMM will replace these systems and lead to the standardization of Agency policies and procedures, resulting in improved NASA contracting capabilities. The investment will be fully integrated with NASA's core accounting and financial management system. CMM consists of a COTS software package that will be integrated with the current SAP-based enterprise Agency core/backbone financial system. CMM will electronically generate solicitations, contract amendments, awards, contract modifications; monitor work status, closeout, and warehouse procurement documents; capture procurement data; provide automated standard reports; and facilitate ad hoc reporting, contract or grant writing, and electronic document generation and transmission. This investment is a collaborative effort that will also provide data transmission to the General Services Administration, Federal Procurement Data System and the National Science Foundation's Federal Assistance Awards Data System, the Department of Labor and Small Business Administration. As of the 4th qtr FY06 the system reached FOC and is transitioning to an O&M phase.

9. Did the Agency's Executive/Investment Committee approve this request?

Yes

9.a. If "yes," what was the date of this approval?

Jan 27, 2006

10. Did the Project Manager review this Exhibit?

Yes

12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project.

No																												
12.a. Will this investment include electronic assets (including computers)?																												
Yes																												
12.b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)																												
No																												
12.b.1. If "yes," is an ESPC or UESC being used to help fund this investment?																												
12.b.2. If "yes," will this investment meet sustainable design principles?																												
12.b.3. If "yes," is it designed to be 30% more energy efficient than relevant code?																												
13. Does this investment support one of the PMA initiatives?																												
Yes																												
If "yes," select the initiatives that apply:																												
<table border="1"> <tr> <td>Human Capital</td> <td></td> </tr> <tr> <td>Budget Performance Integration</td> <td></td> </tr> <tr> <td>Financial Performance</td> <td>Yes</td> </tr> <tr> <td>Expanded E-Government</td> <td>Yes</td> </tr> <tr> <td>Competitive Sourcing</td> <td></td> </tr> <tr> <td>Faith Based and Community</td> <td></td> </tr> <tr> <td>Real Property Asset Management</td> <td></td> </tr> <tr> <td>Eliminating Improper Payments</td> <td></td> </tr> <tr> <td>Privatization of Military Housing</td> <td></td> </tr> <tr> <td>R and D Investment Criteria</td> <td></td> </tr> <tr> <td>Housing and Urban Development Management and Performance</td> <td></td> </tr> <tr> <td>Broadening Health Insurance Coverage through State Initiatives</td> <td></td> </tr> <tr> <td>Right Sized Overseas Presence</td> <td></td> </tr> <tr> <td>Coordination of VA and DoD Programs and Systems</td> <td></td> </tr> </table>	Human Capital		Budget Performance Integration		Financial Performance	Yes	Expanded E-Government	Yes	Competitive Sourcing		Faith Based and Community		Real Property Asset Management		Eliminating Improper Payments		Privatization of Military Housing		R and D Investment Criteria		Housing and Urban Development Management and Performance		Broadening Health Insurance Coverage through State Initiatives		Right Sized Overseas Presence		Coordination of VA and DoD Programs and Systems	
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13.a. Briefly describe how this asset directly supports the identified initiative(s)?																												
<p>Financial Performance – by creating a single authoritative data warehouse and standard procurement processes, savings from timely execution of contract vehicles as well as maintenance of redundant systems will be realized.</p> <p>Expanded E-Government – replaces several duplicative, obsolete, and incompatible agency procurement systems with a single, web-based enterprise system that captures all Agency procurement data.</p>																												
14. Does this investment support a program assessed using OMB's Program Assessment Rating Tool (PART)?																												
Yes																												
14.a. If "yes," does this investment address a weakness found during the PART review?																												
No																												
14.b. If "yes," what is the name of the PART program assessed by OMB's Program Assessment Rating Tool?																												

Integrated Enterprise Management

14.c. If "yes," what PART rating did it receive?

Moderately Effective

15. Is this investment for information technology (See section 53 for definition)?

Yes

**For information technology investments only:**

16. What is the level of the IT Project (per CIO Council's PM Guidance)?

Level 2

17. What project management qualifications does the Project Manager have? (per CIO Council's PM Guidance)

(1) Project manager has been validated as qualified for this investment

18. Is this investment identified as "high risk" on the Q4 - FY 2006 agency high risk report (per OMB's "high risk" memo)?

Yes

19. Is this a financial management system?

No

19.a. If "yes," does this investment address a FFMIA compliance area?

No

19.a.1. If "yes," which compliance area:

19.a.2. If "no," what does it address?

19.b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52.

20. What is the percentage breakout for the total FY2008 funding request for the following? (This should total 100%)

Area	Percentage	
Hardware	0.00	
Software	12.00	
Services	88.00	
Other	0.00	
Total	100.00	★

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?

N/A

22. Contact information of individual responsible for privacy related questions

Name	Patti Stockman
Phone Number	202.358.4787
Title	NASA Records and Privacy Act Officer
Email	Patti.Stockman@nasa.gov

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?

Yes

## SUMMARY OF FUNDING

### SUMMARY OF SPENDING FOR PROJECT PHASES (In Millions)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The total estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

All amounts represent Budget Authority

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY	CY	BY
	2006	2007	2008
<b>Planning:</b>	1.228	1.230	0.000
<b>Acquisition:</b>	43.980	7.045	0.000
<b>Subtotal Planning &amp; Acquisition:</b>	45.208	8.275	0.000
<b>Operations &amp; Maintenance:</b>	9.220	17.221	17.366
<b>TOTAL</b>	54.428	25.496	17.366
<b>Government FTE Costs</b>	12.518	6.229	4.500
<b># of FTEs</b>	114.6	49.2	30.0
<b>Total, BR + FTE Cost</b>	66.946	31.725	21.866

Note: For the cross-agency investments, this table should include all funding (both managing partner and partner agencies).

Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's?

No

2.a. If "yes," how many and in what year?

3. If the summary of spending has changed from the FY2007 President's budget request, briefly explain those changes.

Budget Comments \* Internal Use Only\*

## PERFORMANCE

### Performance Information

*In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.*

*Agencies must use Table 1 below for reporting performance goals and measures for all non-IT investments and for existing IT investments that were initiated prior to FY 2005. The table can be extended to include measures for years beyond FY 2006.*

Table 1

	Fiscal Year	Strategic Goal(s) Supported	Performance Measure	Actual/baseline (from Previous Year)	Planned Performance Metric (Target)	Performance Metric Results (Actual)
1						
2						

*All new IT investments initiated for FY 2005 and beyond must use Table 2 and are required to use the FEA Performance Reference Model (PRM). Please use Table 2 and the PRM to identify the performance information pertaining to this major IT investment. Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for at least four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov).*

Table 2

	Fiscal Year	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvements to the Baseline	Actual Results
1	2007	Mission and Business Results	Administrative Management	Help Desk Services	Maintain average resolution time for procurement systems help desk (HD) tickets at less than 24 hours (in hours)	Baseline average for help desk resolution is 21 hours	Decrease average resolution time by 5% from baseline	TBD
2	2007	Customer Results	Customer Benefit	Customer Satisfaction	Increase in the percentage of procurement staff and procurement system users satisfied with NASA procurement systems (in %)	FY07 baseline data will be used and will be available on 8/1/07	Increase in procurement staff and procurement system users satisfied by 5% over baseline	TBD
3	2007	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease in the number of hours required to reconcile data for external agency reporting (in hours)	1.61 hours per week per person	33% decrease in average hours per week compared to baseline	TBD

<b>4</b>	2007	Technology	Reliability and Availability	Availability	Average level of Compusearch system availability (uptime) is maintained at or above 99.8%	This system is not yet operational and thus no baseline data is available	99.8% system availability	TBD
<b>5</b>	2008	Mission and Business Results	Administrative Management	Help Desk Services	Maintain average resolution time for procurement systems help desk (HD) tickets at less than 24 hours (in hours)	Baseline average for help desk resolution is 21 hours	Decrease average resolution time by 10% from baseline	TBD
<b>6</b>	2008	Customer Results	Customer Benefit	Customer Satisfaction	Increase in the percentage of procurement staff and procurement system users satisfied with NASA procurement systems (in %)	FY07 baseline data will be used and will be available on 8/1/07	Increase in Procurement staff and procurement system users by 10% over baseline	TBD
<b>7</b>	2008	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease in the number of hours required to reconcile data for external agency reporting (in hours)	1.61 hours per week per person	50% decrease in average hours per week compared to baseline	TBD
<b>8</b>	2008	Technology	Reliability and Availability	Availability	Average level of Compusearch system availability (uptime) is maintained at or above 99.8%	This system is not yet operational and thus no baseline data is available	99.8% system availability	TBD
<b>9</b>	2009	Mission and Business Results	Administrative Management	Help Desk Services	Maintain average resolution time for procurement systems help desk (HD) tickets at less than 24 hours(in hours)	Baseline average for help desk resolution is 21 hours	Decrease resolution time by 15% from baseline	TBD
<b>10</b>	2009	Customer Results	Customer Benefit	Customer Satisfaction	Increase in the percentage of procurement staff and procurement system users satisfied with NASA procurement systems (in %)	FY07 baseline data will be used and will be available on 08/01/07	Increase in Procurement staff and procurement system users by 15% over baseline	TBD
<b>11</b>	2009	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease in the number of hours required to reconcile data for external agency reporting (in hours)	1.61 hours per week per person	60% decrease in average hours per week compared to baseline	TBD
<b>12</b>	2009	Technology	Reliability and Availability	Availability	Average level of Compusearch system availability (uptime) is maintained at or above 99.8%	This system is not yet operational and thus no baseline data is available	99.8% system availability	TBD
<b>13</b>	2010	Mission and Business Results	Administrative Management	Help Desk Services	Maintain average resolution time for procurement systems help desk (HD) tickets at less than 24 hours (in hours)	Baseline average for help desk resolution is 21 hours	Decrease average resolution time by 15% from baseline	TBD
<b>14</b>	2010	Customer Results	Customer Benefit	Customer Satisfaction	Increase in the percentage of procurement staff and procurement system users satisfied with NASA procurement systems (in %)	FY07 baseline data will be used and will be available on 8/1/07	Increase in Procurement staff and procurement system users by 15% over baseline	TBD

<b>15</b>	2010	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease in the number of hours required to reconcile data for external agency reporting (in hours)	1.61 hours per week per person	65% decrease in average hours per week compared to baseline	TBD
<b>16</b>	2010	Technology	Reliability and Availability	Availability	Average level of Compusearch system availability (uptime) is maintained at or above 99.8%	This system is not yet operational and thus no baseline data is available	99.8% system availability	TBD
<b>17</b>	2011	Mission and Business Results	Administrative Management	Help Desk Services	Maintain average resolution time for procurement systems help desk (HD) tickets at less than 24 hours (in hours)	Baseline average for help desk resolution is 21 hours	Decrease average resolution time by 15% from baseline	TBD
<b>18</b>	2010	Customer Results	Customer Benefit	Customer Satisfaction	Increase in the percentage of procurement staff and procurement system users satisfied with NASA procurement systems (in %)	FY07 baseline data will be used and will be available on 8/1/07	Increase in Procurement staff and procurement system users by 15% over baseline	TBD
<b>19</b>	2011	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease in the number of hours required to reconcile data for external agency reporting (in hours)	1.61 hours per week per person	65% decrease in average hours per week compared to baseline	TBD
<b>20</b>	2011	Technology	Reliability and Availability	Availability	Average level of Compusearch system availability (uptime) is maintained at or above 99.8%	This system is not yet operational and thus no baseline data is available	99.8% system availability	TBD

## EA

### Enterprise Architecture (EA)

*In order to successfully address this area of the business case and capital asset plan you must ensure the investment is included in the agency's EA and Capital Planning and Investment Control (CPIC) process, and is mapped to and supports the FEA. You must also ensure the business case demonstrates the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.*

1. Is this investment included in your agency's target enterprise architecture?

Yes

1.a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy?

Yes

2.a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

Contract Management Module (CMM)

2.b. If "no," please explain why?

NASA has not yet completed an agency EA Transition Strategy.

### Service Reference Model

3. Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <http://www.whitehouse.gov/omb/egov/>.

Component: Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

Reused Name and UPI: A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

Internal or External Reuse?: 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

Funding Percentage: Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the funding level transferred to another agency to pay for the service.

	Agency Component Name	Agency Component Description	Service Domain	Service Type	Component	Reused Component Name	Reused UPI	Internal or External Reuse?	Funding %
1	Procurement	Support the ordering and purchasing of products and services	Business Management Services	Supply Chain Management	Procurement			No Reuse	20.00
2	Document Revisions	Support the versioning and editing of content and documents	Digital Asset Services	Document Management	Document Revisions			No Reuse	20.00

3	Data Exchange	Support the interchange of information between multiple systems or	Back Office Services	Data Management	Data Exchange			No Reuse	20.00
4	Process Tracking	Allow the monitoring of activities within the business cycle	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	20.00
5	Document Review and Approval	Support the editing and commendation of documents before releasing them	Digital Asset Services	Document Management	Document Review and Approval			No Reuse	20.00

Technical Reference Model									
4. To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.									
FEA SRM Component: Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications.									
Service Specification: In the Service Specification field, Agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.									

SRM Component	Service Area	Service Category	Service Standard						
Procurement	Service Access and Delivery	Access Channels	Web Browser						
Procurement	Service Access and Delivery	Access Channels	Web Browser						
Procurement	Service Access and Delivery	Delivery Channels	Intranet						
Procurement	Service Access and Delivery	Delivery Channels	Intranet						
Procurement	Service Access and Delivery	Delivery Channels	Intranet						
Procurement	Service Access and Delivery	Service Requirements	Legislative / Compliance						
Procurement	Service Access and Delivery	Service Requirements	Legislative / Compliance						
Procurement	Service Access and Delivery	Service Requirements	Legislative / Compliance						
Procurement	Service Access and Delivery	Service Transport	Supporting Network Services						
Procurement	Service Access and Delivery	Service Transport	Supporting Network Services						
Procurement	Service Access and Delivery	Service Transport	Supporting Network Services						
Procurement	Service Access and Delivery	Service Transport	Service Transport						
Procurement	Service Access and Delivery	Service Transport	Service Transport						
Procurement	Service Access and Delivery	Service Transport	Service Transport						
Procurement	Service Access and Delivery	Service Transport	Service Transport						
Procurement	Service Access and Delivery	Service Transport	Service Transport						
Procurement	Service Platform and Infrastructure	Support Platforms	Platform Independent						
Procurement	Service Platform and Infrastructure	Database / Storage	Database						
Procurement	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)						

Data Exchange	Component Framework	Data Interchange	Data Exchange
Document Revisions	Service Access and Delivery	Access Channels	Web Browser
Document Revisions	Service Access and Delivery	Access Channels	Web Browser
Document Revisions	Service Access and Delivery	Access Channels	Web Browser
Document Revisions	Service Access and Delivery	Access Channels	Web Browser
Document Revisions	Service Access and Delivery	Delivery Channels	Intranet
Document Revisions	Service Access and Delivery	Delivery Channels	Intranet
Document Revisions	Service Access and Delivery	Delivery Channels	Intranet
Document Revisions	Service Access and Delivery	Service Requirements	Legislative / Compliance
Document Revisions	Service Access and Delivery	Service Requirements	Legislative / Compliance
Document Revisions	Service Access and Delivery	Service Requirements	Legislative / Compliance
Document Revisions	Service Access and Delivery	Service Transport	Supporting Network Services
Document Revisions	Service Access and Delivery	Service Transport	Supporting Network Services
Document Revisions	Service Access and Delivery	Service Transport	Supporting Network Services
Document Revisions	Service Access and Delivery	Service Transport	Service Transport
Document Revisions	Service Access and Delivery	Service Transport	Service Transport
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Document Revisions	Service Access and Delivery	Service Transport	Service Transport
Document Revisions	Service Access and Delivery	Service Transport	Service Transport
Document Revisions	Service Platform and Infrastructure	Support Platforms	Platform Independent
Document Revisions	Service Platform and Infrastructure	Database / Storage	Database
Document Revisions	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)

5. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?

Yes

5.a. If "yes," please describe.

The Contract Management Module will be compatible with Federal initiatives such as FedBizOpps, the Federal Procurement Data Warehouse – Next Generation, the Integrated Acquisition Environment and other procurement related projects at the Federal level. NASA and the CMM project team's goal is to ensure that CMM will be compatible with these initiatives and will be able to leverage these components and/or applications to: (a) increase efficiency and (b) reduce process and technical redundancies in federal procurement activities government-wide.

6. Does this investment provide the public with access to a government automated information system?

No

6.a. If "yes," does customer access require specific software (e.g., a specific web browser version)?

6.a.1. If "yes," provide the specific product name(s) and version number(s) of the required software and the date when the public will be able to access this investment by any software (i.e. to ensure equitable and timely access of government information and services).

## RISK

### Risk Management

*You should perform a risk assessment during the early planning and initial concept phase of the investment's life-cycle, develop a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.*

*Answer the following questions to describe how you are managing investment risks.*

*1. Does the investment have a Risk Management Plan?*

Yes

*1.a. If "yes," what is the date of the plan?*

Feb 7, 2005

*1.b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?*

No

*1.c. If "yes," describe any significant changes:*

*2. If there is currently no plan, will a plan be developed?*

*2.a. If "yes," what is the planned completion date?*

*2.b. If "no," what is the strategy for managing the risks?*

*3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule: (O&M investments do NOT need to answer.)*

A program, based on the CMM Risk Management Plan, is in place to ensure that investment risks are reflected in the lifecycle cost estimate and schedule on an ongoing basis. After the initial risk assessment for CMM, documented in the 2/7/05 Risk Management Plan for CMM, the Program Director oversees risk management jointly with the Project Manager in Monthly Status Report meetings and in Quarterly Risk Review meetings. During these 2 forums, the CMM project risk matrix is reviewed and updated. Values are assigned to risks or updated, then risks are prioritized or re-prioritized in terms of their project impact. Cost impact is evaluated during this process. Costs incurred to eliminate, reduce, or respond to risk are documented and updated to ensure that project lifecycle costs and schedule estimates:

- (A) are kept current throughout the fiscal year and
- (B) reflect the implementation of risk response and risk mitigation strategies as necessary.

As part of CMM's ongoing and regularly scheduled risk management activities, all lifecycle costs are risk-adjusted using Crystal Ball. Crystal Ball is a software add-in to Microsoft Excel that performs Monte Carlo simulations on risk reserve estimates. For each risk, the project manager identifies the likelihood and impact for each risk as well as an effort/rate cost range. Using this data, the Monte Carlo simulation runs 1000 iterations of the risk estimate. The result of the simulation is a distribution profile that shows not only the expected cost to mitigate the risk, but also a range of costs that may be expected.

### Character Limitation Checks

**Tab:**



**Form:**



## COST & SCHEDULE

### Cost and Schedule Performance

1. Does the earned value management system meet the criteria in ANSI/EIA Standard – 748?

No

2. Answer the following questions about current cumulative cost and schedule performance. The numbers reported below should reflect current actual information. (Per OMB requirements Cost/Schedule Performance information should include both Government and Contractor Costs):

2.a. What is the Planned Value (PV)?

38.510

2.b. What is the Earned Value (EV)?

32.541

2.c. What is the actual cost of work performed (AC)?

30.323

2.d. What costs are included in the reported Cost/Schedule Performance information?

Contractor and Government

2.e. "As of" date:

May 31, 2006

3. What is the calculated Schedule Performance Index (SPI= EV/PV)?

0.85

4. What is the schedule variance (SV = EV-PV)?

-5.969

5. What is the calculated Cost Performance Index (CPI = EV/AC)?

1.07

6. What is the cost variance (CV = EV-AC)?

2.218

7. Is the CV or SV greater than 10%?

Yes



7.a. If "yes," was it the CV or SV or both?

SV

7.b. If "yes," explain the variance.

Schedule variance is due to postponement of the Go Live date for Phase 1 of the system from May 2006 to October 2006. NASA changed from a phased approach, where Phase 1 would go live in May and Phase 2 would go live in October to a combined implementation in which all aspects of the system will go live in October.

7.c. If "yes," what corrective actions are being taken?

NASA is closely managing this project to ensure that the Go Live date in October 2006 is met.

7.d. What is most current "Estimate at Completion"?

59.669

8. Have any significant changes been made to the baseline during the past fiscal year?

No

8.a. If "yes," when was it approved by OMB?

### Actual Performance against the Current Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions).

	Description of Milestone	Initial End Date	Initial Total Cost (\$mil)	Planned End Date	Actual End Date	Planned Total Cost (\$mil)	Actual Total Cost (\$mil)	Schedule Variance (# of days)	Cost Variance (\$mil)	Percent Complete
1	Project Management	Dec 31, 2006	10.713	Dec 31, 2006		10.713	14.982		4.269	71.40
2	Formulation	Aug 31, 2005	2.996	Aug 31, 2005	Aug 31, 2005	2.996	2.625	0	-0.371	100.00
3	Blueprinting	Sep 30, 2007	7.980	Sep 30, 2005	Sep 29, 2005	7.980	0.508	-1	-7.472	100.00
4	Realization and Implementation	Dec 31, 2006	42.344	Dec 31, 2006		42.344	12.208		-30.136	66.00
5	Maintenance	Sep 30, 2007	3.338	Sep 30, 2007		3.338				0.00
6	Maintenance	Sep 30, 2009	4.097	Sep 30, 2008		3.826				0.00
7	Maintenance	Sep 30, 2011	4.264	Sep 30, 2009		4.097				0.00
8	Maintenance	Sep 30, 2012	3.761	Sep 30, 2010		4.157				0.00
9	Maintenance	Sep 30, 2013	3.874	Sep 30, 2011		4.264				0.00
10	Maintenance	Sep 30, 2014	3.990	Sep 30, 2012		3.761				0.00
11	Maintenance	Sep 30, 2008	3.826	Sep 30, 2013		3.874				0.00
12	Maintenance	Sep 30, 2010	4.157	Sep 30, 2014		3.990				0.00

			DME	Steady State	Total
Completion date: Current Baseline:	Sep 30, 2014	Total cost: Current Baseline:	64.033	31.307	95.340
Estimated completion date:	Sep 30, 2014	Estimate at completion:	59.669		88.842